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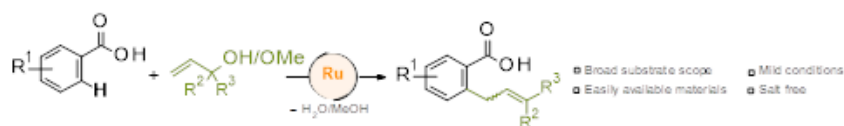
# Green Chemistry and Technology

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## Carboxylate-directed C–H allylation with allyl alcohols or ethers

**Zhiyong Hu** and **Lukas J Gooßen**  
Ruhr-Universität Bochum, Germany

A  $[\text{Ru}(\text{p-cymene})\text{Cl}_2]_2$  catalyst activates allyl alcohols and ethers for the regioselective ortho-C–H allylation of aromatic and heteroaromatic carboxylates. The reaction is orthogonal to most C–H functionalizations with allyl alcohols in that allyl arenes rather than carbonyl compounds are obtained. A wide range of substrates are thus smoothly transformed to allylarenes at 50°C in phosphate-buffered 2,2,2-trichloroethanol. The reaction concept combines the use of abundant reagents and directing groups in a sustainable, waste-minimized method for C–C bond formation.



### Biography

Zhiyong Hu has completed his Master's degree from East China University of Science and Technology in China. Currently, he is pursuing his PhD at Ruhr-Universität Bochum, supervised by Lukas J Gooßen.

Zhiyong.Hu@rub.de

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